

CAPITAL IMPROVEMENT PLAN



Fiscal Years 2017 through 2021

CIP BUDGET INDEX

CAPITAL IMPROVEMENT PLAN

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** All projects for FY17-21 are listed individually within the appropriate category on the project allocation summary sheet pages. Project descriptions are provided only for the projects approved to begin or continue in FY17. Descriptions for projects allocated in FY18 - FY21 are provided in the "CIP Project Detail" section available on the Shelby County website.*

CIP Process

The County annually prepares a five year Capital Improvement Plan (CIP) for capital expenditures, as defined below. Each elected official and division director is asked to evaluate their capital needs for the next five years and to submit their requests for inclusion in the Capital Improvement Plan. Projects are prioritized based on the urgency of the need, as described in the request, with consideration also given to whether the project was included in the prior year CIP. A major factor in determining priorities is whether the project improves the efficiency and effectiveness of County government and provides cost savings to the County. Other factors considered in prioritizing projects include compliance with safety, health or regulatory requirements, public health or safety, economic development, infrastructure preservation and environmental impact. Any projects related to information technology purchases or upgrades are reviewed and rated by the Information Technology Steering Committee. Their recommendations and priorities are reflected in this plan.

Although the five-year Capital Improvement Plan is approved in total, only the budget for the first year is actually adopted as the CIP Budget. This budget is an allocation or indication of intent by the County Commission. The remaining four years are approved as the plan for the subsequent years. All projects in the approved Capital Improvement Budget are subject to subsequent appropriation by the Board of Commissioners. Each project must be approved by a resolution to appropriate the amount for the project and to approve the contract or purchase within the scope of the project. Because it is impossible to plan every asset acquisition need in advance, a contingency has also been provided within the CIP budget for those unexpected items.

CIP Definition

A Capital Improvement Project is defined to encompass those steps required to design and construct or purchase a self-contained capital asset, or the acquisition of land regardless of cost. All costs which represent items that are physically a part of a project qualify if the project exceeds a cost of \$100,000, with at least one major component with a cost in excess of \$25,000. Only buildings and property that are directly associated with Shelby County Government and related agencies qualify for receipt of CIP funds; financial assistance provided to other entities for capital projects would be considered grants from the County.

Projects included in the Capital Improvement Plan that cost in excess of \$100,000 must have a useful life of at least ten years, except for computer projects that must have a life of at least five years. For the past several years, the County has provided pay-as-you-go funding for smaller and shorter life projects, reducing our dependence on debt. Planned asset acquisitions that do not meet these definitions are requested as a part of the operating budget.

CIP Funding and Schools

As part of the County's "Debt Management Plan" the County has established \$75 million as the maximum annual CIP amount from County funds (debt and pay-as-you-go). About two-thirds of this amount has traditionally been designated on an annual basis for school project funding. However, since 2010 the amount has varied depending on the demonstrated needs of the Shelby County Schools (SCS). An assessment of all SCS facilities was completed in 2015. That report, along with current utilization and projected enrollments, will serve as the basis for development of a long term facility plan and determination of priorities for approval of future capital requests. This plan, therefore, does not include CIP funding for the schools.

Funding for the county's portion of the CIP Budget is generally obtained through a short term borrowing program or the issuance of long term general obligation debt. A short term borrowing program may be established each fiscal year to cover the estimated amount of current year payments for projects authorized in that year as well as the payments expected from projects appropriated in previous fiscal years and continuing into the current year. When short term borrowing is used, it is converted to long term general obligation debt within approximately two years after the initial sale.

If a short term borrowing program is utilized, then in addition to establishing the borrowing program size, the County Commission must approve and adopt an initial authorizing bond resolution that provides the funding for the current fiscal year's capital plan. The amount to be authorized in this resolution is based on the assumption that all allocations in the current fiscal year's plan will be appropriated. Any unused prior year authorization may carry forward and be netted against the current year's requirement.

The County provides some funding to CIP for pay-as-you-go rather than debt issuance. Pay-as-you-go funds, to the extent available, will generally be used for smaller projects, projects that have a shorter useful life, and other non-school projects. Debt will be used for schools, large projects and when pay-as-you-go funds are not available. The County intends to develop an ongoing pay-as-you-go program to the extent that funding can be identified.

To provide a more complete overview of total County resources invested in capital assets, any projects funded outside the CIP budget are also listed for reference within this section. Special Revenue, Enterprise or Grant fund sources are utilized for eligible capital projects before CIP funds. Planned capital acquisitions that do not meet the minimum criteria for inclusion in the Capital Improvements Plan based on cost or expected life are also listed.

Impact of CIP on Operating Costs

All projects submitted for consideration in the CIP plan include an analysis of any estimated current or future impact on the annual operating budget. Anticipated revenues, expenditures (or savings) for personnel costs, maintenance or repairs, or other operating costs are disclosed and quantified for evaluation. Recurring annual expenditures associated with capital projects are excluded from CIP funding and included in the operating budget, if necessary. In cases of cost or risk avoidance as the primary impact factor, the nature of the risk or potential cost is identified and assessed. Any additional operating expenditures or anticipated savings related to new capital projects are noted in the project detail.

CIP Project Detail

Detailed project request forms submitted for each capital project are available for review by the County Commissioners and the public on the Finance website. Project summaries are included in the Proposed Budget Summary to provide an overview of the project scope and cost for all projects allocated for FY17 – FY21.

For the individual projects listed, the amounts reflected for "prior year" are only for the project being approved. Any past projects that have been completed will no longer have their related cost listed as "prior year" and will not be a part of the presented budget package. Year one of the CIP Budget establishes the specific projects and the maximum amount of contracts that may be awarded and approved for the fiscal year. Projects may be completed and contractors paid within the fiscal year or construction may continue into one or more future years.

Capital Assets/Projects Budgeted In Other Funds in FY17

Listed below are capital asset acquisitions or construction projects that have been budgeted for FY17 but will not be funded from CIP. The specific fund and nature of the expenditure is indicated for each.

Amount	Division/Fund	Description of Planned Expenditures:
60,600	Information Technology Svcs	Exagrid Backup expansion
84,400	Public Works	Heavy & Other Equip., Infrastructure
17,000	Health Services	Electronics & Other Equipment
1,840,652	Sheriff	Vehicle Maintenance, Electronic & Comp. Equip.
35,000	Juvenile Court	Youth Services Passenger Vehicles (Vans)
\$ 2,037,652	Total General Fund	
64,900	Roads & Bridges Fund	Utility/Other Vehicles, Land, & Right of Way
4,725,600	Roads & Bridges Fund	Asphalt Paving - Infrastructure
18,757	Register DP Fund	Electronic & Computer Equipment
224,000	Vector Control Fund	Utility Vehicles
11,338	General Sessions Criminal	Electronic & Computer Equipment
15,000	Criminal Court Clerk	Electronic & Computer Equipment
30,000	Sheriff ALERT Fund	Passenger Vehicles & Utility Vehicles
645,000	Sheriff Narcotics Fund	Electronic & Computer Equipment, Vehicles
300,000	Storm Water Fund	Construction Contracts
\$ 6,034,595	Total Special Revenue Fund	
25,000	CAO - Office of Preparedness	Electronic & Computer Equipment, Other equipment for Homeland Security
370,000	Planning & Development	Bicycle/Pedestrian automated counters, Electronic & Computer Equipment, and Land Improvements
12,650,000	Public Works	Congestion Management Projects (CMAQ Grants)
1,846,535	Public Works	Roads & Bridges Maintenance Grant 766 (Paving)
485,000	Public Works	STP Resurfacing Projects (Raleigh LaGrange, Macon, Houston Levee, Pisgah)
1,000,000	Public Works	Chickasaw Basin Authority Fund 863
5,138,058	Sheriff	Next Generation 911 CAD System Fund 264, Justice Assistance Grant (Homeland Security)
226,500	Health Services	Electronic & Computer Equipment, Air Pollution Grants
\$ 21,741,093	Total Grant Funds	
140,000	Fire Department	4 New Vehicles, Utility/Other Vehicles
400,000	Fire Department	Fire Station 61 & 62 Renovations/Major Repairs
366,000	Corrections	Vehicles, Heavy Equip., Electronic & Comp. Equip.
2,000,000	Corrections	Main Entrance Building & Women's Building Roofs
\$ 2,906,000	Total Enterprise Funds	
391,600	Fleet Vehicle Replacement Fund	Utility/Other Vehicle Purchases
\$ 391,600	Total Internal Service Funds	
\$ 33,110,940	Total Capital Asset Acquisitions/Projects Not Funded from CIP	



Shelby County Capital Improvement Plan Summary of Project Allocations and Funding

FY 2017-2021

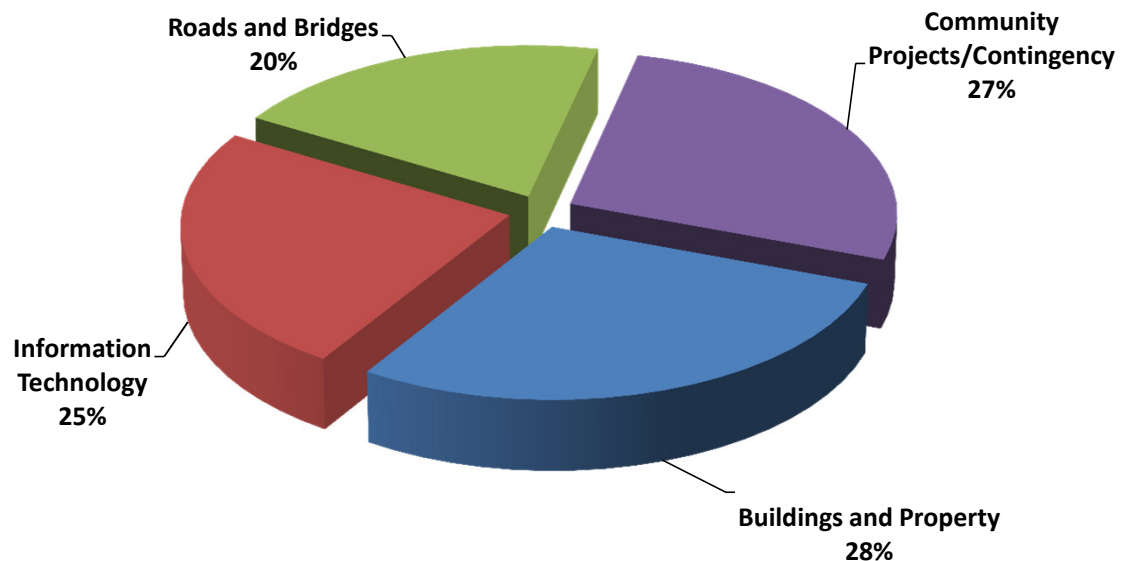
Funding Sources:	FY2017	FY2018	FY2019	FY2020	FY2021	Five Year Total
Federal Funding	4,125,000	1,500,000	14,850,000	8,867,500	31,012,500	60,355,000
Other Government Reimbursements	-	-	-	2,160,000	-	2,160,000
Transfer from Debt Service	6,680,000	6,746,800	6,814,268	6,882,411	6,951,235	34,074,713
County Funding	17,536,585	24,396,700	45,205,732	18,340,089	25,471,647	130,950,754
Total Funding Sources	\$ 28,341,585	\$ 32,643,500	\$ 66,870,000	\$ 36,250,000	\$ 63,435,382	\$ 227,540,467

Project Type Summary:	FY2017	FY2018	FY2019	FY2020	FY2021	Five Year Total
Buildings and Property	7,775,000	16,243,500	42,070,000	10,250,000	17,685,382	94,023,882
Information Technology	6,691,585	4,600,000	-	6,500,000	-	17,791,585
Roads and Bridges	5,500,000	2,000,000	19,800,000	14,500,000	40,750,000	82,550,000
Community Projects/Contingency	7,375,000	8,800,000	4,000,000	4,000,000	4,000,000	28,175,000
EMCP Interest & Issuance Expense	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
Total Projects	\$ 28,341,585	\$ 32,643,500	\$ 66,870,000	\$ 36,250,000	\$ 63,435,382	\$ 227,540,467

County Allocation Share:*	FY2017	FY2018	FY2019	FY2020	FY2021	Total
County Infrastructure	24,216,585	31,143,500	52,020,000	25,222,500	32,422,882	165,025,467
Total County Allocations	\$ 24,216,585	\$ 31,143,500	\$ 52,020,000	\$ 25,222,500	\$ 32,422,882	\$ 165,025,467

*County Share of Allocations excludes Federal, State, & Other Government Reimbursements.

FY17 CIP Budget Allocations



Summary of FY17 CIP Allocations by Project

Project Number	Project Name	Total Project	County Share
<u>BUILDINGS & PROPERTY:</u>			
ADMIN BUILDINGS & PUBLIC WORKS			
307375	ADA - Title 2 Compliance: Building Upgrades	250,000	250,000
201280	160 N. Main Roof Replacement (Vasco A Smith)	40,000	40,000
307397	1075 Mullins Station Office Renovation (PEAB)	160,000	160,000
201471	Total Health Wellness On-Site Health Clinic	175,000	175,000
307395	1060 Madison Renovation	3,200,000	3,200,000
		3,825,000	3,825,000
CRIMINAL JUSTICE			
610177	Land/Mobile Radio for City/County	1,000,000	1,000,000
630173	Jail Roof Replacement (A&E)	25,000	25,000
610573	Radio Shop Expansion	275,000	275,000
		1,300,000	1,300,000
COURTS			
706173	Roof Replacement - Juvenile Court	450,000	450,000
		450,000	450,000
HEALTH			
307386	814 Jefferson Renovation	1,200,000	1,200,000
400375	Health Admin Relocation	1,000,000	1,000,000
		2,200,000	2,200,000
Total Buildings and Property		7,775,000	7,775,000
<u>INFORMATION TECHNOLOGY:</u>			
250280	Out of Region Disaster Recovery Warm Site	500,000	500,000
800971	ESM Voter Registration System Replacement	1,000,000	1,000,000
250282	Countywide Planimetric Digital Data	1,100,000	1,100,000
610572	Sheriff - Body/Vehicle Camera and Vehicle Locators	2,500,000	2,500,000
250281	Single Sign On Management	350,000	350,000
400376	JC - Electronic Medical Records System	350,000	350,000
400377	Lodox Body Imaging System	441,585	441,585
250278	Enhanced Data Encryption	200,000	200,000
250279	Security Incident & Event Management	250,000	250,000
		6,691,585	6,691,585
<u>ROADS AND BRIDGES SUMMARY:</u>			
301082	Walnut Grove	1,000,000	250,000
301084	Houston Levee	1,500,000	375,000
301083	Macon Road	1,500,000	375,000
301089	Hacks Cross	1,500,000	375,000
		5,500,000	1,375,000
<u>COMMUNITY PROJECTS AND CONTINGENCY:</u>			
201281	FedEx Forum Maintenance	2,000,000	2,000,000
201278	Veteran's Home	2,000,000	2,000,000
201279	HVAC Retrofit & Replacement for Agricenter	2,250,000	2,250,000
201282	Shelby Farms Conservancy Storage Building	125,000	125,000
201299	Contingency	1,000,000	1,000,000
		7,375,000	7,375,000
<u>DEBT ISSUANCE EXPENSE</u>			
201299	EMCP Interest & Issue Expense	1,000,000	1,000,000
		1,000,000	1,000,000
TOTAL FY17 CIP ALLOCATIONS		\$ 28,341,585	\$ 24,216,585



Shelby County Capital Improvement Plan Summary of Projects Allocated for 2017

Buildings and Property Projects

ADA - Title 2 Compliance: Building Upgrades: \$250,000 (\$250,000/yr for subsequent years, FY18-FY21)

In a proactive effort to avoid potential litigation, SCG is systematically addressing ADA non-compliance in all SCG buildings. This is a multi-year project to upgrade existing facilities and to achieve compliance with ADA Title II building codes. The SCG building inventory will be surveyed to determine extent of need, and implementation will be prioritized accordingly.

160 N. Main Roof Replacement (Vasco A. Smith): \$40,000 (FY18 - \$260,000)

The roof of the Vasco A. Smith, Jr. Administration Building is near the end of the manufacturer's recommended useful life and needs to be replaced. The existing roof was installed in 1998 with 18 years of wear. When it was installed, the roof came with a 10 year warranty, which has expired. Support Services has been patching the roof several times each year ever since.

1075 Mullins Station Office Renovation (PEAB): \$160,000 (FY18 - \$2,200,000)

The Peggy Edmiston Building (PEAB) was built in 1935 and originally housed the old Shelby County Health Care Center which was closed in 2001 and subsequently converted to administrative offices. During the past 10 years, the County has invested over \$2.5 million in redeveloping the PEAB, however most of the projects addressed site and structural improvements, and mechanical systems (i.e. parking lot improvement, roofing and HVAC). This project addresses building improvements within the east-wing of the complex which houses the Office of the Shelby County Assessor and consists of redesigning public service counters, restroom renovations, replacing flooring, painting and modular workstations. Additional work includes HVAC ductwork replacement and control upgrades, additional lighting, and electrical upgrades.

Total Health Wellness On-Site Health Clinic: \$175,000

Buck Consultants performed a data analysis utilizing the County's claims experience from 1/13 through 9/15 to identify the feasibility and cost effectiveness of providing a worksite medical clinic for Shelby County employees. The analysis indicated a potential for a positive return on investment for a full service on-site clinic within two (2) years. Buck anticipates that in year 1 the Shelby County clinic will experience a loss of approx. \$433K due to the initial investment required including for build-out and implementation costs. The group health insurance plan could reduce this loss in year 1 by including the initial build out of the clinic as part of the Capital Improvement Budget. Clinics generally range from 200 ft² to as much as 25,000 ft². Most are 500 to 2000 ft². This proposal is for 1000 ft² at an estimated cost of \$175/ft² build out within the Peggy Edmiston Administration Building (PEAB) located at 1075 Mullins Station Rd.

1060 Madison Renovation: \$3,200,000

The building located at 1060 Madison Ave. is the former Shelby County Forensic Center. The forensic function was relocated to the new West Tennessee Regional Forensic Center on Poplar in 2013. The building has been vacant since then, with the exception of an 9-month stint, when it was partially occupied by the Corrections Re-Entry Program. The building was originally constructed in the 1920s and an autopsy suite was added to the north side later. The combination of age and neglect over the years have resulted in the need for complete renovation. Community Services currently operates functions in leased space, and will move into 1060 Madison after renovation in order to reduce operating expenses. An A/E consultant was hired in FY16 to design the renovation of the building. This project represents implementation of design via construction. This project was originally included in the Health Department Master Plan (# 307386) but was separated in FY16.

Land/Mobile Radio for City/County: \$1,000,000 (FY18 - \$8,000,000; FY19 - \$12,000,000)

The current radio system is co-owned by the City of Memphis (60%) and Shelby County (40%) and reaches end of life for continued support in 2017. The systems are currently housed on 9 radio towers providing county-wide coverage for approximately 16,000 local government and public safety radios. The FCC mandates that our system be P-25 compliant by the year 2017 and our current system only partially complies; the only reusable infrastructure will be the physical tower sites. All vehicle and hand-held radios will have to be replaced as well as software and other hardware components. This project outlines only our portion of the project expense.

Jail Roof Replacement (A&E): \$25,000 (FY18 - \$275,000)

The roof for the old Jail has to be patched and/or repaired numerous times each year due to exposure to extreme weather conditions. The warranty for this roof is near its expiration date.



Shelby County Capital Improvement Plan Summary of Projects Allocated for 2017

Radio Shop Expansion: \$275,000

This project provides for the redesign and expansion of an existing structure located at 11670 Memphis-Arlington Road, Building B. The construction will increase the square footage of existing storage bay demolition of the north wall and expand the building into an area currently used as a small fenced lot. The interior will be renovated by demolition of existing walls that separate bay space and opening the footprint to allow a large open area for radio technicians to install, repair and train. The work will also add a small restroom and will be upfitted for compatibility with NextGen radio systems repairs and services.

Juvenile Court Roof Replacement: \$450,000

As evidenced by several years of unsuccessful roof repair projects, the building needs installation of a replacement roof. Major leaks in a number of locations throughout the building pose safety risk for clients and staff, and could result in damage to interior surfaces, materials, furnishings and equipment.

814 Jefferson Renovation: \$1,200,000 (FY19 - \$19,900,000)

The Shelby County Health Department facility is located at 814 Jefferson. The facility is comprised of three buildings: the original two-story building constructed in the 1950s, the six-story addition constructed in 1971, and the auditorium also constructed in 1971. Due to the age of the buildings, major expenditures are necessary to correct and/or repair building deficiencies, infrastructure problems and code compliance issues. Corrective action is required to address the following issues, as a minimum: brick façade repairs, asbestos abatement, roof replacement, HVAC replacement, electrical system grounding, ADA Title 2 compliance, and interior refurbishment. Preliminary cost estimates total several million dollars. In FY2013, Allen & Hoshall was selected to conduct a comprehensive analysis of Health Department facility needs and determine the feasibility of significant investment in the current facility or alternative locations. Pending the recommendations from consultants in FY2016 regarding renovation or alternate locations, design work and planning will commence in FY17.

Health Admin Relocation: \$1,000,000

Relocation of some Health Department employees to 160 N. Main will be necessary to complete renovations at the current 814 Jefferson building. These funds will provide for the necessary office construction or cubicle partitions and furniture.

Information Technology Projects

Out of Region Disaster Recovery Warm Site: \$500,000

The County currently performs data backup operations for computer systems in each of its two datacenters. Copies of the entire backup data are stored at both datacenters to facilitate off-site recovery of County data, should disaster strike one of the datacenters. The County's current data recovery preparations are insufficient for recovery of computer services in the event of a massive earthquake, or other regional disaster. The warm recovery site for these critical County systems will be a disaster resistant facility, located more than 100 miles away from Shelby County, and be powered by an electrical power grid different from the County's TVA supplied grid. The site will receive daily updates of the County's backup data, and have sufficient available, Internet accessible computer server resources for hosting the critical County systems when needed.

ESM Voter Registration System Replacement: \$1,000,000

The Shelby County Election Commission's voter registration system software is Election System Management (ESM). ESM is one of a five part election delivery system infrastructure. The ESM voter registration system is a critical system that is operating without vendor support or maintenance and therefore presents a critical risk with exceptionally high consequence. This also presents security risks. The main objective of this project is risk mitigation. While ESM is generically referred to as the 'voter registration system' as it manages the Shelby County voter registration database, it serves numerous other functions such as voter history update, ballot build, voting, redistricting, reporting, etc. Replacement for ESM would require one or more systems that replicates all of the current ESM functionality.

Countywide Planimetric Digital Data: \$1,100,000

Shelby County has not procured a County-wide set of accurately mapped features since the never-completed CAMAS project was dropped in 1978. It would prove beneficial to acquire a comprehensive set of digital features derived from highly accurate aerial imagery that can be shared among all the local government agencies using a single source technical vendor to ensure a commonality of feature attributes, naming conventions, data descriptions, etc. This comprehensive data set would form the nucleus of a publicly-accessible base map for all or most of the websites within the County who publish geospatial information.

Sheriff - Body/Vehicle Camera and Vehicle Locators: \$2,500,000

This project is to develop, install and provide maintenance for a single-source solution that provides an integrated body-worn camera, vehicle camera and automated vehicle locator system that will be used by our officers in the field and interact with our CAD system.



Shelby County Capital Improvement Plan Summary of Projects Allocated for 2017

Single Sign On Management: \$350,000

The need for increased security has resulted in the use of multiple User ID and Passwords to sign on to many applications. The rules for creating User ID and Password is different from one software application to another has created the situation where a user has to remember multiple User IDs and the corresponding passwords. We are seeking to simplify the sign on process by employing Single Sign-on Management Software.

Juvenile Court - Electronic Medical Records System: \$350,000

Under the supervision of the Department of Justice, Juvenile Court Detention Services (JCDS) contracts for detainee medical services with Correct Care Solutions (CCS). Part of the medical service delivery system includes the implementation of an Electronic Medical Record (EMR) system, NextGen, that is currently being used for the Jail, Jail East and Shelby County Division of Corrections. This project will include the purchase of the NextGen licenses, software implementation, testing, training, and the placing of the EMR into service. Furthermore, an audit system will be implemented, as well as a historical conversion of current health records, and patient synch software.

Lodox Body Imaging System: \$441,585

There is currently only one functioning x-ray unit at the Forensics Center. This unit is very old and our ability to function will be greatly impaired should this unit become disabled. The Lodox Stats is technology that obtains high quality full-body radiographic images in a very short period of time. It has been proven to complete 7 full-body scans in the time to do 1 using the traditional technology. It is particularly helpful in foreign body detection in gunshot cases, and fracture detection in abuse/trauma cases with children and elder adults. Although the Lodox system quoted is self contained, it is recommended that an imaging storing system PACS also accompany the Lodox. Currently the WTRFC has no imaging server and stored images are only backed up if they are placed on the Forensic Center DIDI System. The Lodox System and the PACS storage system will revolutionize how the forensic center does business and will place them on a path to excellence.

Enhanced Data Encryption: \$200,000

The purpose of this CIP project is to provide for the encryption of sensitive data including Protected Health Information (PHI) and Card Holder Data (CHD) which is stored and transmitted on, or from, Shelby County Government systems. The ideal solutions will allow for the centralized management of an encryption solution for storage (on servers, workstations, laptops, and removable drives), SCG County email (allowing the sending and receiving of sensitive information), and County-issued mobile smart phone devices. The FY15 HIPAA and HITECH Act risk assessment, covering Health Services, Corrections, the Aging Commission, and ITS identified lack of encryption solutions as a significant risk and recommends the implementation of improved encryption to reduce the risk of data breach under HIPAA requirement §164.312(a)(2)(iv) for all areas mentioned.

Security Incident & Event Management: \$250,000

A Security Incident and Event Management system for Shelby County Government (SCG) provided resources will provide for much better visibility, live alerting, and response while also greatly enhancing data mining capabilities for response to data breaches. This will allow for more efficient identification of and response to threats affecting SCG ITS provided and maintained systems and users. The current solution scope includes the network ingress and egress points, primary routers and firewalls, and the servers and workstations which are current in scope for the County's identified departments handling Protected Health Information (PHI) and Card Holder Data (CHD). The ideal solution will allow for the centralized management of logs from network, server, and workstation devices and easy scaling to new devices as they are determined to transmit, process, or store sensitive data.

Roads and Bridges Projects

Walnut Grove: \$250,000 - County Share (FY18 - \$250,000; FY20 - \$2,862,500 - County Share)

This project improves a 1.0 mile of segment of Walnut Grove Road by widening the existing roadway from two to four lanes, correcting geometry, adding bicycle and pedestrian facilities for improved mobility and widening the bridge over Grays Creek. This project includes improvements at the intersection of Houston Levee Road and Walnut Grove. This route provides one of only two east-west crossings of Grays Creek. \$1 million has been allocated in FY17 for preliminary engineering and right of way phase for design and \$1 million in FY18 for the final design and ROW purchase.

Houston Levee: \$375,000 - County Share (FY21 - \$3,600,000 - County Share)

This project improves Houston Levee Road by widening the segment from Walnut Grove to the Wolf River Bridge from two to four lanes. The roadway segment will include a median with pedestrian and bicycle facilities and landscaping. Length (miles) 1.67. This project improves emergency vehicle access along a major north-south corridor in Shelby County.



Shelby County Capital Improvement Plan Summary of Projects Allocated for 2017

Macon Road: \$375,000 - County Share (FY19 - \$450,000; FY21 - \$4,337,500 - County Share)

This project provides 1.73 miles of roadway improvements by widening of Macon Road from two to four lanes from Berryhill Road to Houston Levee Road, addition of pedestrian and bicycle facilities, and construction of a new bridge over Gray's Creek. Intersection improvements will be made at Berryhill Road, Lenow Road, Rebel Drive, Big Orange, Far Road, and Houston Levee Road.

Hacks Cross: \$375,000 - County Share (FY18 - \$250,000; FY19 - \$4,500,000 - County Share)

This project improves a 1.8-mile segment of Hacks Cross Road from Shelby Drive to Stateline Road by widening the roadway from two to seven lanes. The improvements will include pedestrian and bicycle facilities and landscaping. This corridor is a major north-south connector that is highly congested with traffic traveling through Unincorporated Shelby County, the City of Memphis and north Mississippi. Hacks Cross Road has an interchange at State Route 385 which is a significant traffic generator.

Community Projects

FedEx Forum Maintenance: \$2,000,000 (\$3,000,000/yr for subsequent years, FY18-FY21)

The FedEx Forum is now in its 11th year of operation and the capital needs are increasing. The agreements with the Memphis Grizzlies provide that they will manage the FedEx Forum and the City of Memphis and Shelby County are responsible for the capital needs of the facility to maintain it as a first class NBA Arena. The original financing of the facility included a \$10 million Capital Reserve Fund. This fund has been used judiciously during the first eleven years but is expected to be exhausted within the next two years. The Memphis Grizzlies have had a facility assessment prepared that indicates substantial capital needs going forward as the building ages. Over the next few months, we will be working closely with the Memphis Grizzlies to assess projected needs.

Veteran's Home: \$2,000,000

Shelby County will contribute a \$2 million share toward construction of a \$30.1 million, 140 bed facility that would care for veterans who reside in West Tennessee. Sixty-five percent (65%) of the cost will be funded by the Veteran's Administration and thirty-five percent (35%) will be funded by the State of Tennessee, Private Donations and Shelby County. Forty (40) acres will be required for the facility.

HVAC Retrofit & Replacement for Agricenter: \$2,250,000

The project is to replace 31 Rooftop units which were installed in 1985 and make modifications to the installation to be code compliant with new mechanical and plumbing codes. The new units will be high efficiency units with night setback controls and proper ventilation rates to meet ASHRAE standards. The existing air distribution system in the facility will be modified to maintain space setpoints in the dome area. The existing gas piping on the roof will be braced to meet the seismic requirements of the Code. The existing condensate drains, which presently drain directly on the roof will be modified to drain the condensate into the sewer system per code. A new DDC energy management control system will be install to monitor and schedule the HVAC system. The new system with the high efficiency units and control system will reduce the energy use by approximately \$30,000 per year.

Shelby Farms Conservancy Storage Building: \$125,000 (FY18 - \$1,300,000)

The Shelby Farms Park Conservancy currently utilizes an old barn on Haley Road to store maintenance vehicles and equipment and displays from "Starry Nights" and other park attractions. The barn is a wooden structure that is over 75 years old. The barn is in extreme disrepair: the roof has failed, the walls have warped beyond repair; most windows are broken. The building has no insulation and is unsafe for the employees. This project involves demolition of the existing barn, architectural/engineering consultant services for design of a new structure at the current location, and construction of a new insulated metal building to accommodate the maintenance and storage needs of the Conservancy. The warehouse is approximately 6,800 ft. with cost per square foot is approximately \$190/ft due to a building height of 20 feet to accommodate the "Starry Nights" exhibits, jib crane, equipment lift, multi-process welder, 1/3 of building is fully conditioned with ADA compliant restrooms for maintenance staff. Plus, the total cost includes new paving around the perimeter of the building.

Contingency: \$1,000,000 - Included for all years.



Shelby County Capital Improvement Plan Buildings and Property Project Summary

FY 2017-2021

PROJECT ALLOCATIONS BY YEAR						
PROJECT TITLE:	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
<u>Admin Buildings and Public Works</u>						
ADA - Title 2 Compliance: Building Upgrades	250,000	250,000	250,000	250,000	250,000	1,250,000
ADA - Title 2 Compliance: Sidewalks	-	100,000	-	-	-	100,000
160 N Main Roof Replacement (Vasco A Smith)	40,000	260,000	-	-	-	300,000
Relocation of Election Commission & Archives	-	-	-	-	1,700,000	1,700,000
Employee Parking Garage/Area	-	-	1,500,000	-	15,000,000	16,500,000
1075 Mullins Station Office Renovation (PEAB)	160,000	2,200,000	-	-	-	2,360,000
Total Health Wellness On-Site Health Clinic	175,000	-	-	-	-	175,000
1060 Madison Renovation	3,200,000	-	-	-	-	3,200,000
<u>Criminal Justice</u>						
Land/Mobile Radio for City/County	1,000,000	8,000,000	12,000,000	-	-	21,000,000
Training Academy Expansion	-	-	200,000	2,000,000	-	2,200,000
Interior Renovation of Criminal Justice Center	-	5,000,000	5,000,000	5,000,000	-	15,000,000
Jail Roof Replacement	25,000	275,000	-	-	-	300,000
Sheriff Ceremony & Parade Field	-	-	-	-	200,000	200,000
Radio Shop Expansion	275,000	-	-	-	-	275,000
<u>Courts</u>						
Juvenile Court (JC) Gymnasium Expansion	-	-	220,000	3,000,000	-	3,220,000
Courthouse Restoration (140 Adams)	-	-	-	-	225,000	225,000
Replacement Roof (JC)	450,000	-	-	-	-	450,000
Renovation to Centralized Records/Court Files	-	-	-	-	310,382	310,382
<u>Health</u>						
Raleigh/Frayser Community Wellness Center	-	158,500	3,000,000	-	-	3,158,500
814 Jefferson Renovation	1,200,000	-	19,900,000	-	-	21,100,000
Health Admin Relocation	1,000,000	-	-	-	-	1,000,000
Project Totals	\$ 7,775,000	\$ 16,243,500	\$ 42,070,000	\$ 10,250,000	\$ 17,685,382	\$ 94,023,882

FUNDING SOURCES AND ALLOCATION TYPES						
PROJECT ALLOCATIONS:	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7003 Electronic & Computer Equip.	-	-	250,000	-	-	250,000
7009 Other Equipment	-	-	250,000	-	-	250,000
7011 Buildings & Improvements	1,275,000	2,200,000	2,500,000	-	16,050,000	22,025,000
7072 CIP-Architectural & Eng Svcs	225,000	418,500	1,920,000	-	225,000	2,788,500
7075 CIP-Demolition & Site Preparation	-	-	-	-	75,000	75,000
7076 CIP-Construction Contracts	5,275,000	5,625,000	25,150,000	10,250,000	1,100,000	47,400,000
7077 CIP-Major Equip/Components	1,000,000	8,000,000	12,000,000	-	171,273	21,171,273
7081 CIP-Supplies and Materials	-	-	-	-	64,109	64,109
Total Project Cost	\$ 7,775,000	\$ 16,243,500	\$ 42,070,000	\$ 10,250,000	\$ 17,685,382	\$ 94,023,882
Other	-	-	-	-	-	-
County Funding	\$ 7,775,000	\$ 16,243,500	\$ 42,070,000	\$ 10,250,000	\$ 17,685,382	94,023,882
Total Project Funding	\$ 7,775,000	\$ 16,243,500	\$ 42,070,000	\$ 10,250,000	\$ 17,685,382	\$ 94,023,882
County Share of Allocations:	\$ 7,775,000	\$ 16,243,500	\$ 42,070,000	\$ 10,250,000	\$ 17,685,382	\$ 94,023,882



Shelby County Capital Improvement Plan Information Technology Projects Summary

FY 2017-2021

PROJECT ALLOCATIONS BY YEAR						
PROJECT TITLE:	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
Voting Machines	-	-	-	1,200,000	-	\$ 1,200,000
ERP Replacement	-	-	-	3,000,000	-	3,000,000
iCJIS - Electronic Filing-System Enhancements	-	350,000	-	-	-	350,000
Renovations at East Data Center	-	3,000,000	-	-	-	3,000,000
Out of Region Disaster Recovery Warm Site	500,000	-	-	-	-	500,000
Countywide Planimetric Digital Data	1,100,000	-	-	-	-	1,100,000
Single Sign On Management	350,000	-	-	-	-	350,000
Core Infrastructure Refresh	-	-	-	2,000,000	-	2,000,000
JC - Electronic Medical Records System	350,000	-	-	-	-	350,000
Sheriff - Body/Vehicle Cameras and Vehicle Locators	2,500,000	-	-	-	-	2,500,000
Courtroom Technology Upgrades	-	750,000	-	-	-	750,000
Lodox Body Imaging System	441,585	-	-	-	-	441,585
Data Governance: Risk & Management Compliance	-	-	-	300,000	-	300,000
Data Governance: System Access Control	-	300,000	-	-	-	300,000
Enhanced Data Encryption	200,000	-	-	-	-	200,000
Security Incident & Event Management	250,000	-	-	-	-	250,000
Jail Fiber-Optic Cable	-	200,000	-	-	-	200,000
ESM Voter Registration System Replacement	1,000,000	-	-	-	-	1,000,000
Project Totals	\$ 6,691,585	\$4,600,000	\$ -	\$ 6,500,000	\$ -	\$ 17,791,585

FUNDING SOURCES AND ALLOCATION TYPES						
PROJECT ALLOCATIONS:	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7003 Electronic & Computer Equip.	6,226,585	650,000	-	6,500,000	-	\$ 13,376,585
7009 Other Equipment	415,000	-	-	-	-	415,000
7024 - Infrastructure-Other	-	200,000	-	-	-	200,000
7072 CIP-Architectural & Eng Svcs	-	220,000	-	-	-	220,000
7074 CIP-Other Pro & Tech Svcs	50,000	-	-	-	-	50,000
7076 CIP-Construction Contracts	-	2,780,000	-	-	-	2,780,000
7077 CIP - Major Equipment/Components	-	750,000	-	-	-	750,000
Total Project Cost	\$ 6,691,585	\$4,600,000	\$ -	\$ 6,500,000	\$ -	\$ 17,791,585
PROJECT FUNDING SOURCES:	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
Other	-	-	-	-	-	\$ -
County Funding	\$6,691,585	\$4,600,000	-	6,500,000	-	17,791,585
Total Project Funding	\$ 6,691,585	\$4,600,000	\$ -	\$ 6,500,000	\$ -	\$ 17,791,585
County Share of Allocations:	\$ 6,691,585	\$4,600,000	\$ -	\$ 6,500,000	\$ -	\$ 17,791,585



Shelby County Capital Improvement Plan Roads and Bridges Project Summary

FY 2017-2021

PROJECT ALLOCATIONS BY YEAR						
PROJECT TITLE:	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
Holmes Road	\$ -	\$ -	\$ -	\$ 350,000	\$ 9,000,000	\$ 9,350,000
Walnut Grove Road Expansion	1,000,000	1,000,000	-	11,450,000	-	13,450,000
Macon Road	1,500,000	-	1,800,000	-	17,350,000	20,650,000
Houston Levee	1,500,000	-	-	-	14,400,000	15,900,000
Hacks Cross	1,500,000	1,000,000	18,000,000	-	-	20,500,000
Benjestown Road	-	-	-	2,700,000	-	2,700,000
Project Totals	\$ 5,500,000	\$ 2,000,000	\$ 19,800,000	\$ 14,500,000	\$ 40,750,000	\$ 82,550,000

FUNDING SOURCES AND ALLOCATION TYPES						
PROJECT ALLOCATIONS:	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7071 CIP-Land & Right-of-Way	\$ -	\$ -	\$ 1,800,000	\$ 350,000	\$ -	\$ 2,150,000
7072 CIP-Architectural & Eng Svcs	5,500,000	1,000,000	-	-	9,000,000	15,500,000
7076 CIP-Construction Contracts	-	-	18,000,000	14,150,000	31,750,000	63,900,000
7012 Land	-	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,000,000
Total Project Cost	\$ 5,500,000	\$ 2,000,000	\$ 19,800,000	\$ 14,500,000	\$ 40,750,000	\$ 82,550,000
PROJECT FUNDING SOURCES:	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
Federal Funding	4,125,000	1,500,000	14,850,000	8,867,500	31,012,500	\$ 60,355,000
Other:	-	-	-	2,160,000	-	\$ 2,160,000
County Funding	1,375,000	500,000	4,950,000	3,472,500	9,737,500	\$ 20,035,000
Total Project Funding	\$ 5,500,000	\$ 2,000,000	\$ 19,800,000	\$ 14,500,000	\$ 40,750,000	\$ 82,550,000
County Share of Allocations:	\$ 1,375,000	\$ 500,000	\$ 4,950,000	\$ 3,472,500	\$ 9,737,500	\$ 20,035,000



Shelby County Capital Improvement Plan Community Projects Summary

FY 2017-2021

PROJECT ALLOCATIONS BY YEAR						
PROJECT TITLE:	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
Veteran's Home Project	2,000,000	-	-	-	-	2,000,000
Show Place Arena Renovations	-	3,500,000	-	-	-	3,500,000
FedEx Forum Maintenance	2,000,000	3,000,000	3,000,000	3,000,000	3,000,000	14,000,000
HVAC Retrofit & Replacement for Agricenter	2,250,000	-	-	-	-	2,250,000
Shelby Farms Conservancy Storage Building	125,000	1,300,000	-	-	-	1,425,000
Contingency	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
Project Totals	\$ 7,375,000	\$ 8,800,000	\$ 4,000,000	\$ 4,000,000	\$ 4,000,000	\$ 28,175,000

FUNDING SOURCES AND ALLOCATION TYPES						
PROJECT ALLOCATIONS:	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
7071 CIP-Land & Right-of-Way	-	-	-	-	-	-
7072 CIP-Architectural & Eng Svcs	2,275,000	3,000,000	3,000,000	3,000,000	3,000,000	14,275,000
7076 CIP-Construction Contracts	4,100,000	4,800,000	-	-	-	8,900,000
7079 CIP-Other Project Costs	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
Total Project Cost	\$ 7,375,000	\$ 8,800,000	\$ 4,000,000	\$ 4,000,000	\$ 4,000,000	\$ 28,175,000
PROJECT FUNDING SOURCES:	FY2017	FY2018	FY2019	FY2020	FY2021	5 Year Total
Federal Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
County Funding	7,375,000	8,800,000	4,000,000	4,000,000	4,000,000	28,175,000
Total Project Funding	\$ 7,375,000	\$ 8,800,000	\$ 4,000,000	\$ 4,000,000	\$ 4,000,000	\$ 28,175,000
County Share of Allocations:	\$ 7,375,000	\$ 8,800,000	\$ 4,000,000	\$ 4,000,000	\$ 4,000,000	\$ 28,175,000

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